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	Application No.	Applicant(s)
Notice of Allowability	10/665,280	TAKEDA ET AL.
	Examiner	Art Unit
	Thoi V. Duong	2871
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31;	(OR REMAINS) CLOSED in this ap ) or other appropriate communication (IGHTS). This application is subject t	orrespondence address plication. If not included a will be mailed in due course. THIS
1. This communication is responsive to the supplemental am	nendment filedJUne 01, 2007.	
2. The allowed claim(s) is/are 22,26,34 and 35.		
Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application No. 16 cuments have been received in this of this communication to file a reply MENT of this application.  hitted. Note the attached EXAMINER es reason(s) why the oath or declara est be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the Comment or in the Comment of the drawing he header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing the header according to 37 CFR 1.121(comment of the drawing	complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of the back) of d).  nust be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	5. Notice of Informal Pages No./Mail Date Paper No./Mail Date 7. Examiner's Amendment S. Examiner's Statement S. Other	(PTO-413), e

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## **DETAILED ACTION**

1. This office action is in response to the Supplemental Amendment filed June 01, 2007.

Accordingly, claim 22 was amended, and claims 1-21, 23-25 and 27-33 were cancelled. Currently, claims 22, 26, 34 and 35 are pending in this application.

## Allowable Subject Matter

2. Claims 22, 26, 34 and 35 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record fairly suggests or shows all of the limitations as claimed. Specifically,

Re claim 22, none of the prior art of record discloses, in combination with other limitations as claimed, a liquid crystal display device comprising a first orientation control element formed in said pixel electrode and extending in a nonparallel direction relative to an extending direction of an edge of said pixel electrode, and a second orientation control element extending in a parallel direction relative to an extending direction of said edge,

wherein said first orientation control element is provided on said first and second substrates respectively;

wherein at least a part of liquid crystal molecules of said liquid crystal layer on said second orientation control element are orientated in a vertical direction relative to said substrate when voltage is being applied between said pixel and opposed electrodes;

wherein said first and second orientation are pattern-cut slits; and

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wherein said second orientation control element is provided on said second substrate, and said pixel electrode does not exist on at least a part of a place on said first substrate opposed to said second orientation control element.

The most relevant reference, US 6,614,492 B1 to Song, fails to disclose or suggest that at least a part of liquid crystal molecules of said liquid crystal layer on said second orientation control element are orientated in a vertical direction relative to said substrate when voltage is being applied between said pixel and opposed electrodes. As shown in Figs. 2 and 3, Song discloses a first orientation control element (51 and 81), extending in a nonparallel direction relative to an extending direction of an edge of the pixel electrode 50, and a second orientation control element (corresponding to portions A, B, C and D) extending in a parallel direction relative to an extending direction of said edge,

wherein said first orientation control element 51 and 81 is provided on the first and second substrates 10 and 60 respectively and the first control element 51 is formed in the pixel electrode 50;

wherein said first and second orientation are pattern-cut slits (opening patterns); and

wherein said second orientation control element is provided on said second substrate 60, and said pixel electrode does not exist on at least a part of a place on said first substrate 10 opposed to said second orientation control element.

However, as shown in Fig. 3, the liquid crystal molecules on said second orientation control element are orientated in a non-vertical direction relative to the

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substrate when voltage is being applied between the pixel and opposed electrodes 50 and 80.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms, can be reached at (571) 272-1787.

Thoi V. Duong Tharman

06/08/2007